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PATENT SPECIFICATION

DRAWINGS ATTACHED

1,119,889



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Int. Cl.:—A 47 b 47/00.

COMPLETE SPECIFICATION

A Cabinet which can be Assembled and Method for Making the Same

WE, REITER S.r.l., a Company organised and existing under the laws of Italy, of Via Volturmo 42, Milan (Italy), do hereby declare the invention, for which we pray that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:—

This invention relates to a cabinet which can be assembled particularly adapted to contain electrical appliances. This invention is also concerned with the method by which said cabinet is assembled.

It is a first object of the present invention to provide a cabinet of the aforesaid character and formed of a limited number of parts, say six, having minimum overall dimensions when the cabinet is disassembled and which are readily jointable when the cabinet is to be used. On the whole, the overall dimensions of the disassembled cabinet is a quarter of the assembled cabinet.

Thus, obvious advantages are obtained both as to storing and transport.

It is a second object of the invention to provide a cabinet of the aforesaid character, in which the appliances to be mounted internally of the cabinet can be secured onto the bottom plate of said cabinet, said plate being free at the sides thereof, therefore facilitating the fastening of the appliances to the connections thereof. Following this operation, the side elements are mounted, such elements being rigidly connected with the bottom by means of joint means, so that the upper and lower elements will engage the side elements by guide means on the same and are secured to the bottom by screws. Finally, the cover is secured by means of two already preset hinges.

As a result, the use of the cabinet according to the present invention is advantageous

[Price 4s. 6d.]

both to retailers by allowing them to save a considerable room, and to installers through a remarkable saving in labour in assembling the part for obtaining a completed cabinet.

All these and other advantages which will be more apparent as the following description proceeds are attainable by the cabinet according to the present invention, which is characterized by comprising the combination of a plurality of interconnectable stamped metal plate parts, at least a part of the edge being U-bent a bottom which along each of two sides thereof is provided with a pair of longitudinal slots; a first pair of of opposite side plates, each of which being jointable to the bottom using a pair of said slots; a second pair of opposite side plates, each of which being jointable to the ends of the first two side plates and secured by screws to the bottom; a cover hinged with respect to a side plate of the first pair and adapted to be clamped against the bent edge of the side plate opposite thereto.

The accompanying drawing shows schematically by way of non-restrictive example an embodiment of the cabinet according to the present invention, and more particularly:

Figure 1 is a perspective view of an almost assembled cabinet;

Figures 2, 4 and 5 are structural detailed views;

Figure 3 is a perspective view, partially cut away, of a side plate of a pair of side plates; and

Figures 6, 7, 8, 9 and 10 are perspective views of the various assembling steps for the cabinet according to the present invention.

Particularly referring to Figures 1 and 6, it will be seen that the cabinet according to the present invention comprises a plurality

of interconnectable stamped metal plate parts, and more particularly: a bottom 11 which along each of two sides thereof is provided with a pair of longitudinal slots 12 and 13, respectively; a pair of opposite side plates 14, each of which being jointable to bottom 11 at the pair of slots 12 and 13; a pair of opposite side plates 15, each of which being jointable to the ends of the first two side plates and lockable by screws relative to bottom 11; a cover 16 hinged with respect to a side plate 14 of the first pair and which can be clamped against the bent edge 14a of the side plate opposite thereto.

Along the entire periphery thereof, bottom 11 has outwardly perpendicular bent edges 11a with respect to the assembled cabinet. Adjacent the four corners thereof, said bottom 11 is provided with holes 11' for a wall fastening of the cabinet, as well as threaded holes 11", hereinafter mentioned, centrally and adjacent two sides thereof.

Each of the longitudinal slots 12 and 13, with which bottom 11 is provided, has two zones, one being wider than the other; the pair of slots 12 have, along one side of the bottom, their slots orientated with the wider zones towards the same direction, which is opposite to that of the other pair of slots 13.

Each side plate 14 of the first pair has: along one side an outwardly perpendicular bent edge 14a with respect to the assembled cabinet; at the rear edge, an angle bar 16' has one flange thereof secured to the inner face of the side plate, and the other flange has two notches 17 at which said flange has extensions 17' of a L-cross-section. Along each of the other two opposite sides, each side plate 14 further has a bent edge, so as to form a rib 18 of a U cross-section and to terminate with a fin 19, Fig. 2 disposed on a plane parallel to that of the side plate, but slightly more internal of it with respect to the assembled cabinet (Figure 2).

U-shaped rib 18 is a guide for side plates 15 assembling, as will be apparent as the present description proceeds.

Each side plate 15 of the second pair (see also Figure 3) has along the front side an inwardly perpendicularly bent edge 15a with respect to the assembled cabinet and a bracket 20 (Figure 4) adjacent the inner edge. By a flange thereof, said bracket 20 is secured to the inner face of side plate 15, the other flange thereof having a hole adapted for the passage of a screw 21 and the side ends perpendicularly bent to said flange.

Along each of the other two opposite sides, each side plate 15 has the edge 15b so bent as to be of a U-shaped cross-section, except for a limited zone at the inner side, wherein it is only perpendicularly bent. Each side plate 15 has also two brackets

22, each of which being disposed at an outer corner, so that a flange thereof is secured to the inner face of side plate 15 and the other flange is parallel to and slightly spaced apart from the U-bent edge 15b 70 (Figure 3).

Along the whole periphery thereof, cabinet cover 16 has edge 16a so bent as to form a U-shaped cross-section, and two slots 23 along a side thereof. In relation to each slot 23 there are two sleeve bent fins 24 adapted to accommodate a pivot pin 25 of a hinge, by which cover 16 is connected to a side plate 14. Cover 16 is provided with a hook 26 forming part of a known type clamping device 27, by which cover 16 can be clamped against the bent edge 14a of the opposite side plate 14.

As seen in Figure 5, one side plate 14, to which the cover is hinged, is on its edge 14a provided with a pair of slots 28, in front of each of which an angle bar 29 is internally secured, such an angle bar reducing said slot 28 to a much smaller slot 28', and there are two sleeve bent fins 30 adapted to cooperate with the sleeve bent fins 24 to accommodate the pivot 25 of the hinge.

As above-mentioned, the present invention is also concerned with an assembling method for the above described section cabinet.

As seen in Figures 6, 7, 8, 9 and 10, assembling of the cabinet is carried out in the following steps, the arrows 1-10 showing the appropriate movements.

1. (Figure 6): Side plate 14 carrying the cover hinge is assembled on bottom 11, by causing the L-shaped extensions 17' to penetrate the wide portion of slots 12 along one side of the bottom.

2. (Figure 6): Said side plate is caused to slide in the proper direction until said extensions 17' engage with the narrow zones of the above-mentioned slots.

3. (Figure 7): The opposite side plate 14 is assembled on bottom 11 by causing its extensions 17' to penetrate the wide portion of slots 13 along the opposite bottom side.

4. (Figure 7): Said side plate is caused to slide in the opposite direction to the former, until said extensions engage with the narrow zones of the above-mentioned slots.

5. (Figure 8): One side plate of the other pair of the side plates is inserted by causing it to slide with the U-bent edges 15b along the guides formed of ribs 18 at the ends of the other two already assembled side plates 14, until the brackets 22 at the corners thereof are caused to engage with the lugs 19 of said two side plates 14.

6. (Figure 8): Screw 21, carried by central bracket 20, is screwed within the corresponding hole 11" of bottom 11.

7. (Figure 9): The last side plate 15 is inserted by causing it to slide with the U-bent edges 15b along the guides formed of ribs 130

18 at the ends of the two first assembled side plates 14, until the brackets at the corners thereof are caused to engage with the ends of the lugs of said two side plates 14.

8. (Figure 9): Screw 21, carried by central bracket 20, is screwed within the corresponding hole 11" of bottom 11.

9. (Figure 10): After having approached cover 16 to the side plate 14 on which it is to be hinged, each pivot 25 of the two hinges are threaded between the bent sleeves and alternately arranged lugs of said two parts.

10. (Figure 10): The right angle bent end of each pivot 25 is forced within the corresponding slot 28' of the side plate being involved, said end being jammed against the end of the slot.

Instead of each pair of slots on the bottom and a corresponding pair of extensions which may be engaged therewith on the side plate, there may be on the involved side plate three or more slots and relative extensions.

WHAT WE CLAIM IS:

1. A parallelepiped cabinet which can be assembled particularly adapted to contain electrical appliances, characterized by comprising the combination of a plurality of interconnectable stamped metal plate parts, at least a part of the edges being U-bent, a bottom which, along each of two sides thereof, is provided with a pair of longitudinal slots; a first pair of opposite side plates, each of which being jointable to said bottom using a pair of said slots; a second pair of opposite side plates, each of which being jointable to the ends of the first two side plates and secured by screws to the bottom; a cover provided with hinging elements connectable with hinging elements on a side plate of the first pair and adapted to be clamped against the bent edge of the side plate opposite thereto.

2. A cabinet according to Claim 1, characterized in that said bottom has outwardly perpendicularly bent edges relative to the assembled cabinet along the whole periphery thereof.

3. A cabinet according to Claim 1, characterized in that each longitudinal slot in the bottom, has two zones, one of which being wider than the other, each pair of slots along one side of the bottom having the slots orientated with the wider zones in the same direction, which is opposite to the direction of the other pair of slots.

4. A cabinet according to Claim 1, characterized in that each side plate of the first pair has: an outwardly perpendicularly bent edge along one side relative to the assembled cabinet, along the opposite side adjacent the edge an angle bar is secured with a flange thereof to the inner face of the side plate and the other flange has two

notches at which the flange has L-shaped extensions; along each of the other two opposite sides a bent edge forms a rib of a U-shaped cross-section and terminate with a fin arranged on a plane which is parallel to the side plate plane, but slightly more internal of it, with respect to the assembled cabinet.

5. A cabinet according to claim 1, characterized in that each side plate of the second pair has: an inwardly perpendicularly bent edge along the outer side with respect to the assembled cabinet; adjacent the inner edge a bracket is secured with a flange thereof to the inner face of the side plate and the other flange having a hole for a screw passing therethrough and the side ends perpendicularly bent to said flange; along each of the other two opposite sides an edge is bent so as to be of a U-shaped cross-section, except for a limited zone adjacent the inner side, wherein it is only perpendicularly bent; two brackets, each being arranged at an outer corner so that a flange thereof is secured to the inner face of the side plate and the other flange is parallel to and slightly spaced apart from the U-bent edge.

6. A cabinet according to claim 1, characterized in that the cover has: a bent edge along the whole periphery thereof so as to form a U-shaped cross-section; two slots along one side thereof, at each of which there are two sleeve bent lugs adapted to accommodate a hinge pivot, through which it is connected with a side plate; at the opposite side, a hook forming part of a known type clamping device, by which said cover can be clamped against the bent edge of the opposite side plate.

7. A cabinet according to the preceding claims, characterized in that the side plate, relatively to which said cover is hinged, is on the edge thereof provided with a pair of slots, at each of which an angle bar is secured and in that there are two sleeve bent lugs adapted to cooperate with the cover lugs for accommodating the hinge pivot.

8. A method for assembling the cabinet according to the claim 1, characterized by comprising the following steps: the side plate carrying the cover hinge is assembled on the bottom by causing the extensions thereof to penetrate the wide portion of the slots along one side of the bottom, said side plate being caused to slide in the proper direction until said extensions engage with the narrow zones of the above-mentioned slots; the opposite side plate is assembled on the bottom by causing the extensions thereof to penetrate the wide portion of the slots along the opposite side of the bottom; said side plate is caused to slide in the opposite direction to the former, until said extensions engage with the narrow zones of the above-mentioned slots; one side plate

of the other pair of side plates is inserted by causing it to slide with the U-bent edges along the guides formed of the ribs at the ends of the other two already assembled
5 side plates, until the brackets at the corners thereof are caused to engage with the fins of said two side plates; the screw carried by the central bracket is screwed into the corresponding hole of the bottom; the last side
10 plate is inserted by causing it to slide with the U-bent edges along the guides formed of the ribs at the ends of the first two assembled side plates, until the brackets at the corners thereof are caused to engage with
15 the ends of the fins of said two side plates; the screw carried by the central bracket is screwed into the corresponding hole of the

bottom; on approaching the cover to the side plate onto which the former is to be hinged, each pivot of the two hinges is threaded between the sleeve bent and alternately
20 arranged lugs of said two parts; the perpendicularly bent end of each pivot, already threaded into the hinge, is forced into the corresponding slot of the involved side plate, 25 said end being jammed since the length thereof is slightly larger than that of said slot.

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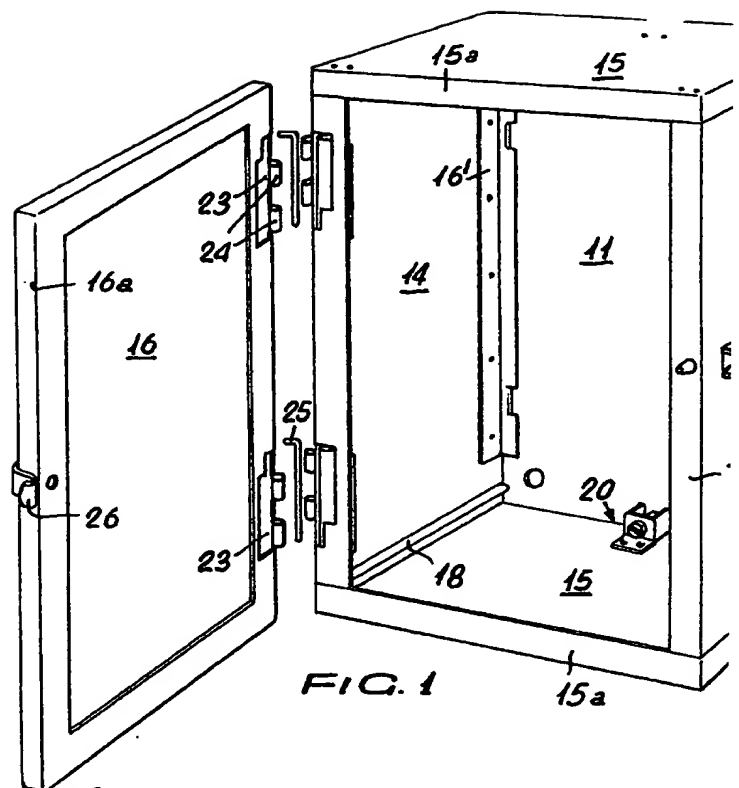


FIG. 1

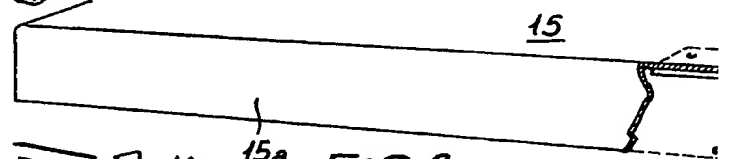


FIG. 3

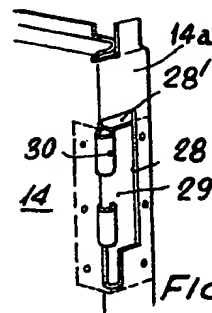


FIG. 5

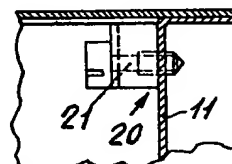


FIG. 4



FIG. 2

1,119,889 COMPLETE SPECIFICATION

2 SHEETS

This drawing is a reproduction of
the Original on a reduced scale.
SHEETS 1 & 2

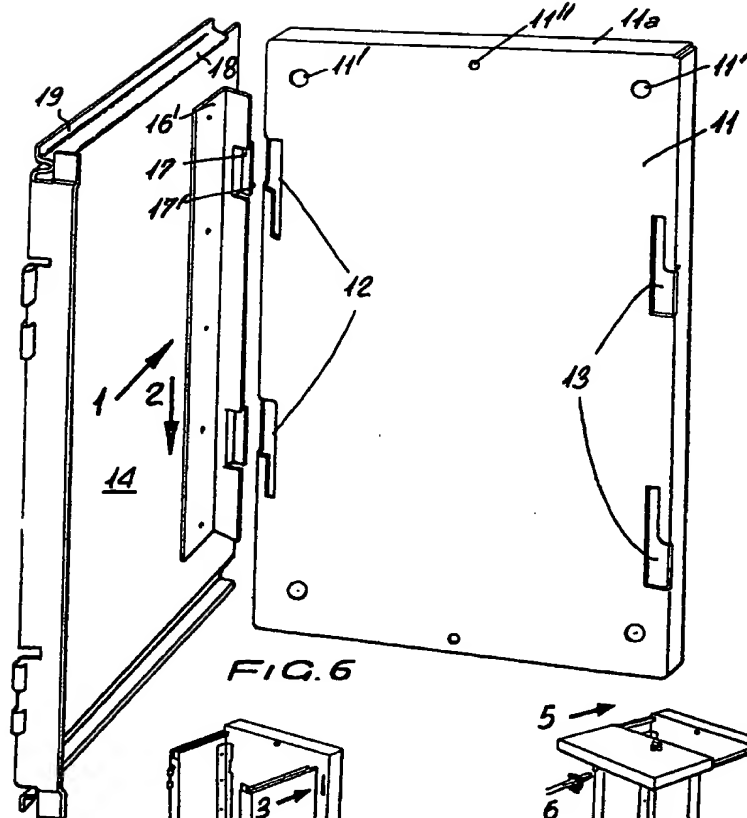


FIG. 6

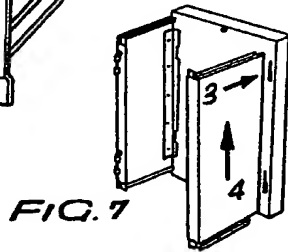


FIG. 7

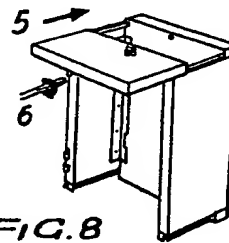


FIG. 8

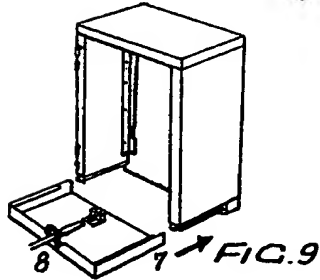


FIG. 9

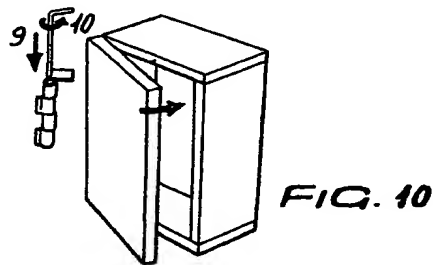


FIG. 10

